

Rec'd PCT/PTO 94 X 12 JAN 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
22 January 2004 (22.01.2004)

PCT

(10) International Publication Number
WO 2004/006654 A1

(51) International Patent Classification⁷: A01G 23/091 (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number: PCT/FI2003/000548

(22) International Filing Date: 7 July 2003 (07.07.2003)

(25) Filing Language: Finnish

(26) Publication Language: English

(30) Priority Data: 20021379 12 July 2002 (12.07.2002) FI

(71) Applicant (for all designated States except US): PLUS-TECH OY [FI/FT]; P.O. Box 474, FIN-33101 Tampere (FI).

(72) Inventor; and

(75) Inventor/Applicant (for US only): ANNALA, Markku [FI/FT]; Itsenäisydenkatu 18 H 69, FIN-33100 Tampere (FI).

(74) Agent: TAMPEREEN PATENTTITOIMISTO OY; Hermiankatu 12 B, FIN-33720 Tampere (FI).

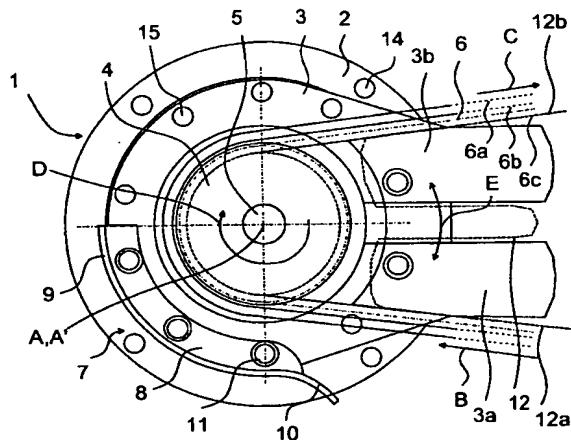
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SAWING DEVICE AND ITS SAFETY SYSTEM FOR PRECAUTION OF A BREAKING SAW CHAIN



WO 2004/006654 A1

(57) Abstract: Method and safety device for a breaking saw chain, wherein the safety device (7) comprises a protective wall (9) positioned in the vicinity of the drive gear (4) drawing the saw chain (6) in such a manner that it is capable of receiving the movement of the tail of the broken saw chain and to guide said tail in a controlled manner with the rest of the saw chain into the desired direction, wherein at the same time the strong swinging movement of said tail is prevented, and said protective wall is fastened to movable members (3) that are arranged to hold the protective wall (9) in the correct location during sawing in relation to the saw chain (6) whose incoming direction (B) varies during the operation. In particular, the protective device is placed in a sawing apparatus (1) comprising a frame part (2), a holder (3) for a guide bar, means (4, 5) for driving the saw chain (6) and for performing the sawing, as well as means for moving the protective wall (9) in phase with the guide bar holder (3), wherein said means are preferably implemented by using the guide bar holder (3).